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L2: Entry 1 of 1

File: USPT

Dec 20, 1988

US-PAT-NO: 4792480

DOCUMENT-IDENTIFIER: US 4792480 A

TITLE: Laminate material for use in protective clothing

DATE-ISSUED: December 20, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freund; Paul X.	Zelienople	PA	16063	N/A
Rodgers; Sheridan J.	Ellwood City	PA	16117	N/A
Kairys; Christopher J.	Allison Park	PA	15101	N/A

US-CL-CURRENT: 442/378; 428/456, 428/461, 428/516, 428/518,  
428/520, 442/379, 442/382, 442/396, 442/401, 442/414

## ABSTRACT:

A material suitable for fabrication into protective garments that is a laminate formed from a layer of a reflective metallic material to provide flash protection and a layer that inhibits penetration by toxic and corrosive chemicals to protect against chemical exposure; both adhered to a cloth substrate to provide support.

10 Claims, 1 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 2. Document ID: US 4833010 A      Relevance Rank: 48

L1: Entry 2 of 2                                      File: USPT                                      May 23, 1989

US-PAT-NO: 4833010

DOCUMENT-IDENTIFIER: US 4833010 A

TITLE: Composite chemical barrier fabric

DATE-ISSUED: May 23, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Langley; John D.	Guntersville	AL	N/A	N/A

US-CL-CURRENT: 442/396; 2/243.1, 2/455, 2/457, 2/901,  
428/317.3, 428/319.7, 428/319.9, 428/475.8, 428/476.1, 428/518,  
442/398, 442/417

ABSTRACT:

A multilayer chemical barrier fabric is made up of a base sheet of nonwoven polypropylene laminated on one side to a multilayer film sheet having a film of ethylene vinyl alcohol sandwiched between films of nylon with a surface film if linear low-density polyethylene bonded to the outer film of nylon and laminated on the other side to a multilayer film sheet having a central film of polyvinylidene chloride, an inner film of ethylene vinyl acetate, and an outer film of low-density polyethylene. Fabrics having this structure show resistance to breakthrough within eight hours for all fifteen chemicals listed on the ASTM F1001 chemical test battery. A composite fabric having the above structure, but omitting the multilayer film that contains polyvinylidene chloride, is also disclosed.

6 Claims, 4 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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